

Amendments to the Claims

This listing of claims replaces all prior versions and listings of the claims in this application:

1. (Currently amended) ~~Optical~~ An optical layer system for reducing the reflection of optically transparent substrates, having layers of ~~[[a]]~~ material with a lower optical refractive index and layers of material with a higher optical refractive index disposed alternately on the surface of a substrate, from which layers layer stacks ~~(B, C, D, E)~~ with at least one layer ~~[[H]]~~ of a material with a higher optical refractive index, which is enclosed by two layers made of a material with a lower optical refractive index, are formed, the layer stacks ~~(B, C, D, E)~~ have an equivalent optical refractive index with respect to a prescribable wavelength λ which is lower than the optical refractive index of the substrate; thereby at least two layer stacks are formed one above the other, the respective equivalent optical refractive index of which is reduced, starting from the substrate and the individual layer stacks ~~(B, C, D, E)~~ have an optical thickness which corresponds at least to twice $\frac{1}{4}$ of the prescribable wavelength λ .

2. (Currently amended) ~~Layer~~ The optical layer system ~~according to claim 1, characterised in that~~ of claim 1 wherein the equivalent optical refractive index of each layer stack ~~(B, C, D, E)~~ is lower than the optical refractive index of a material from which layers with a lower optical refractive index are formed.

3. (Currently amended) ~~Layer~~ The optical layer system ~~according to claim 1 or 2, characterised in that~~ of claim 1 wherein none of the individual layers ~~H and L~~ of the layer system have an optical layer thickness which corresponds to an integer multiple of $\frac{1}{4}$ of the prescribable wavelength.

4. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 including a layer ~~(A)~~ which is formed directly on the surface of the substrate and formed from a material, the optical refractive index of which is lower than the optical refractive index of the substrate, forms a $\lambda/4$ layer.

5. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 wherein the optical refractive index of the substrate is ≤ 2 .

6. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 wherein the layers ~~L~~, the optical refractive index of which is lower, are formed from SiO_2 or MgF_2 .

7. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 wherein the layers ~~[[H]]~~, the optical refractive index of which is higher, are formed from at least one of TiO₂, HfO₂, ZrO₂, TA₂O₅, and ~~for~~ Nb₂O₅.

8. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 wherein the individual layer stacks (B, C, D, E) are formed from three, five or seven layers.

9. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 wherein the uppermost layer, which points in the direction of faces the surrounding medium and is made of the material with a lower optical refractive index, has an optical layer thickness which is greater than $\frac{1}{4}$ of the prescribed wavelength λ .

10. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 wherein the layer thickness proportion in the layer stacks (B, C, D, E) of layers ~~[[H]]~~ which are formed from a material with a higher optical refractive index ~~is increased starting~~ increases from the substrate surface ~~in the direction of~~ the surrounding medium.

11. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 wherein the layer system has a thickness in the range between 800 and 3000 nm.

12. (Currently amended) ~~Layer~~ The optical layer system ~~according to one of the preceding claims, characterised in that~~ of claim 1 wherein the prescribed wavelength λ is selected from the wavelength range between 480 and 600 nm.

13. (New) The optical layer system of claim 2 wherein none of the individual layers of the layer system have an optical layer thickness which corresponds to an integer multiple of $\frac{1}{4}$ of the prescribable wavelength.

14. (New) The optical layer system of claim 2 including a layer which is formed directly on the surface of the substrate and formed from a material, the optical refractive index of which is lower than the optical refractive index of the substrate, forms a $\lambda/4$ layer.

15. (New) The optical layer system of claim 3 including a layer which is formed directly on the surface of the substrate and formed from a material, the optical refractive index of which is lower than the optical refractive index of the substrate, forms a $\lambda/4$ layer.

16. (New) The optical layer system of claim 13 including a layer which is formed directly on the surface of the substrate and formed from a material, the optical refractive index of which is lower than the optical refractive index of the substrate, forms a $\lambda/4$ layer.

17. (New) The optical layer system of claim 2 wherein the optical refractive index of the substrate is ≤ 2 .

18. (New) The optical layer system of claim 3 wherein the optical refractive index of the substrate is ≤ 2 .

19. (New) The optical layer system of claim 13 wherein the optical refractive index of the substrate is ≤ 2 .

20. (New) The optical layer system of claim 4 wherein the optical refractive index of the substrate is ≤ 2 .